Phospho-SMAD1 (Ser206) Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit	UniProt ID: #Q15797	Entrez-Gene Id: 4086
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:25	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-SMAD1 (Ser206) Antibody detects endogenous levels of SMAD1 only when phosphorylated at Ser206. No cross reactivity was detected with other famly members.				
Species predicted to react based on 100% sequence homology		Mouse, Rat, Monkey				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser206 of SMAD1. Antibodies were purified by protein A and peptide affinity chromatography.				
Background		wide range of critical p differentiation, and ap kinase receptors. Ligar these receptors (3-5). I terminal motif SSXS, as phosphorylated SMAD they regulate the trans phosphorylate residue Ser206 recruits Smurf1	processes including optosis (1,2). BMP and binding induces well as SMAD5 are side dimerize with the cription of target is in the linker region of the linker	nstitute a large family of morphogenesis, cell-fareceptors are members multimerization, autop phosphorylate SMAD1 and SMAD9 (SMAD8) at the coactivating SMAD4 and genes (5). MAP kinases aron of SMAD1, including the mand leads to the degriptional activity by recru	te determination, p of the TGF-β super hosphorylation, and at Ser463 and Ser46 eir corresponding s ad translocate to the and CDKs 8 and 9 ar Ser206. Phosphoryl adation of SMAD1 (roliferation, family of Ser/Thr d activation of 5 in the carboxy- cites. These e nucleus, where de also reported to ation of SMAD1 at 6). Phosphorylation
		MAPKs phosphorylate the linker region of Smad1, including Ser206, and inhibit Smad1 activity through cytoplasmic retention and degradation (6).				
Background References		1. Hogan, B.L. (1996) <i>Genes Dev</i> 10, 1580-94. 2. Hoodless, P.A. et al. (1996) <i>Cell</i> 85, 489-500. 3. Klemm, J.D. et al. (1998) <i>Annu Rev Immunol</i> 16, 569-92. 4. Kretzschmar, M. et al. (1997) <i>Genes Dev</i> 11, 984-95. 5. Whitman, M. (1998) <i>Genes Dev</i> 12, 2445-62. 6. Sapkota, G. et al. (2007) <i>Mol Cell</i> 25, 441-54. 7. Alarcón, C. et al. (2009) <i>Cell</i> 139, 757-69. 8. Sapkota, G. et al. (2007) <i>Mol. Cell</i> 25, 441-454.				
Species Reactiv	rity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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